



European Council
of
Civil Engineers

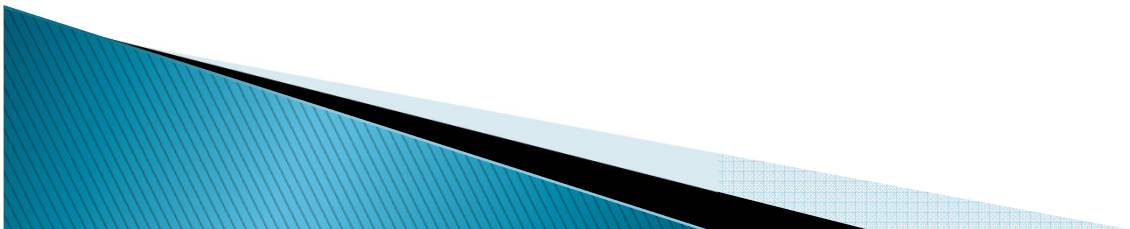
Standing Committee Knowledge & Technology

Ruben Paul Borg
(Chairman)

58th ECCE General Assembly
Nicosia X-2013

58th General Assembly – Nicosia

- ▶ A: Development of the K&T Action Plan
- ▶ B: Strategy Document Proposals
- ▶ C: ECCE members feedback
- ▶ D: Action & Deliverables



A: Development of K&T Action Plan

56th GA – Dubrovnik

ACTION PLAN

- ▶ Principle: Can be based on specific work packages – Tasks.
- ▶ Expertise: Task / WP leaders identified – expertise.
- ▶ Deliverables: Specific attainable deliverables.
- ▶ Timeframes: Short term objectives within longer term plan – strategy: Road Map.



56th GA – Dubrovnik

Methodology

- ▶ Realistic Objectives – attainable targets.
- ▶ Relevance of ECCE activities to member countries and the country organisation's members.
- ▶ Reaching the members – dissemination.
- ▶ Priority areas – link to special interest fields.

General Methodology:

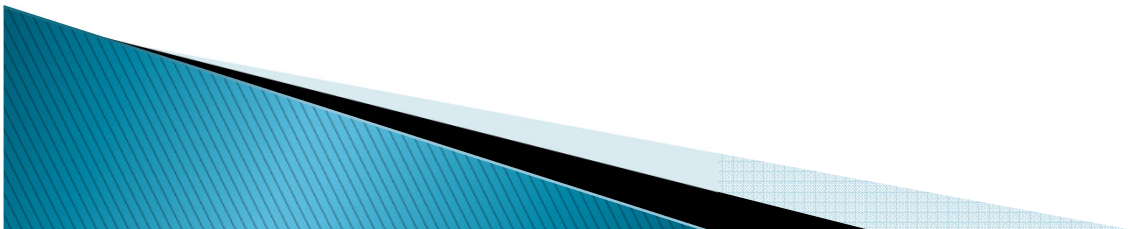
- ▶ Data Collection – Surveys – identify current practice and gaps in knowledge
- ▶ Identify Specialists in different countries
- ▶ Identify Best practice examples in different countries.



56th GA – Dubrovnik

Special Interest Groups:

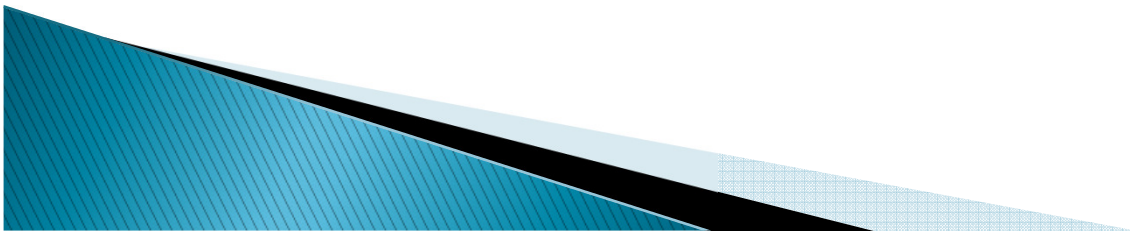
- ▶ Short Term Plan: Identify current state – Priority areas and emerging fields in Knowledge and Technology – developments in Civil Engineering: **What shall Civil Engineering be like in 5 years time.**
- ▶ Longer Term: Further Development of tasks – reference to priority areas – Special interest group / Work Packages, tackling specific areas – K&T.



B: Strategy Document Proposals

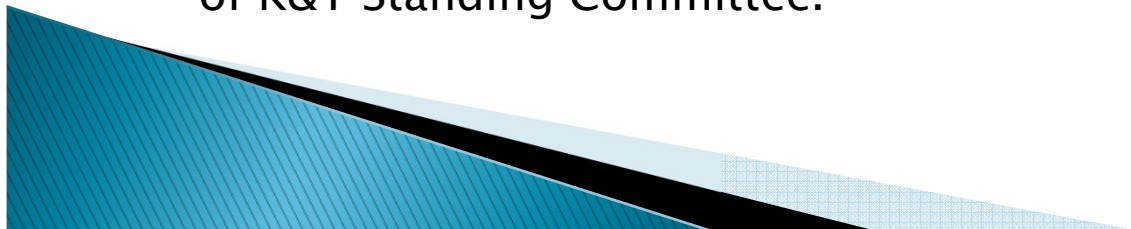
Knowledge & Technology **Strategy Document**

- ▶ 1. Information – Knowledge & Technology.
- ▶ 2. Communication & Knowledge Transfer.
- ▶ 3. Management & Organisation.



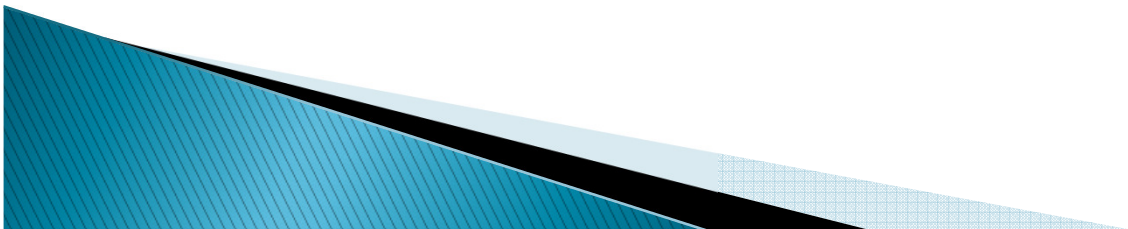
1 – Information – Knowledge & Technology.

- ▶ Survey for use by the Civil Engineering Associations, Education Institutions and the Construction Industry
- ▶ Background to the survey – Target – identify and understand the needs of tomorrow in engineering – useful for Education Institutions – setting syllabi, construction Industry – training needs for engineers.
- ▶ Identify Innovation and trends.
- ▶ Engineer professional activity in relation to training and expertise.
- ▶ Task group set up under this Standing Committee to investigate what studies are already being undertaken on this topic.
- ▶ Identify who requires the results.
- ▶ Trends – Time series investigation – continuous Investigation / activity of K&T Standing Committee.



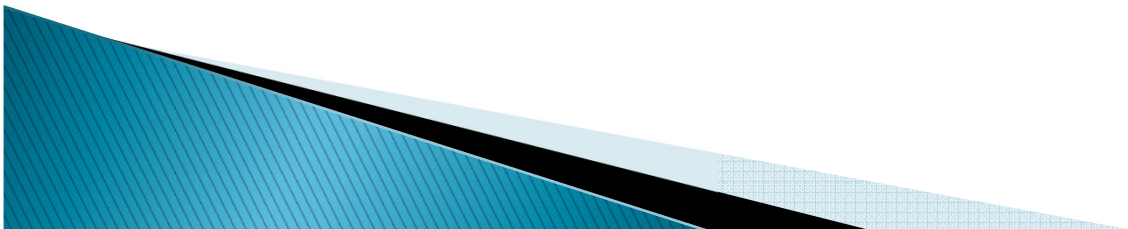
2 – Communication & Knowledge Transfer.

- ▶ Setting up a Communications Platform – LinkedIn, Skype conferences.
- ▶ Collection of best practice guides, case studies – European network.
- ▶ Work that ECCE member organisations are already doing & build on this, rather than starting from scratch.



3 – Management & Organisation.

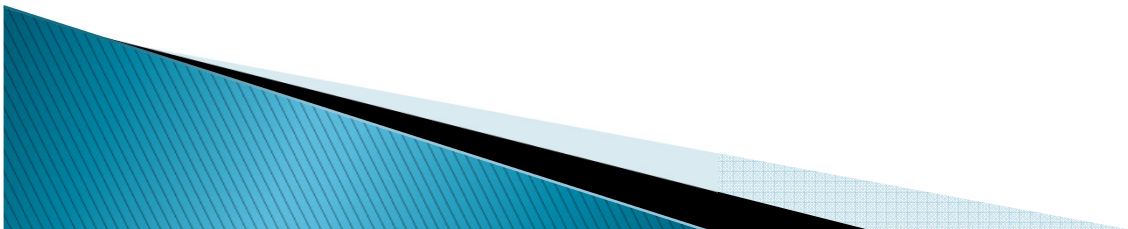
- ▶ Identify and include experts from each country to be involved in Working Groups/Task Forces
- ▶ Regular Skype meetings between experts – Development of Position papers.
- ▶ K&T Activity between meetings.



C: ECCE Members Feedback

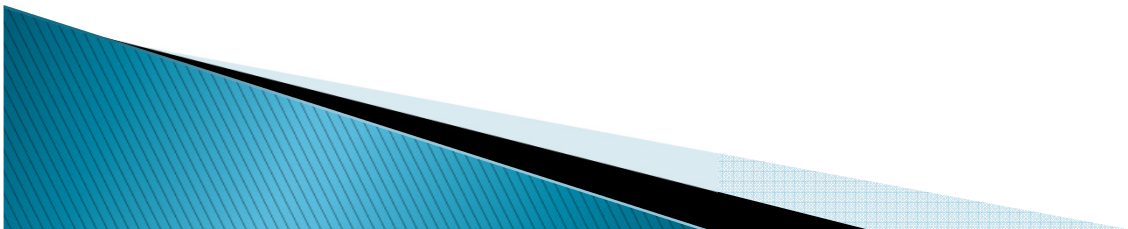
General

- ▶ Address the Effective Organisation and Actions of the group by targeting well defined deliverables attainable within reasonable time frames with reasonable resources.



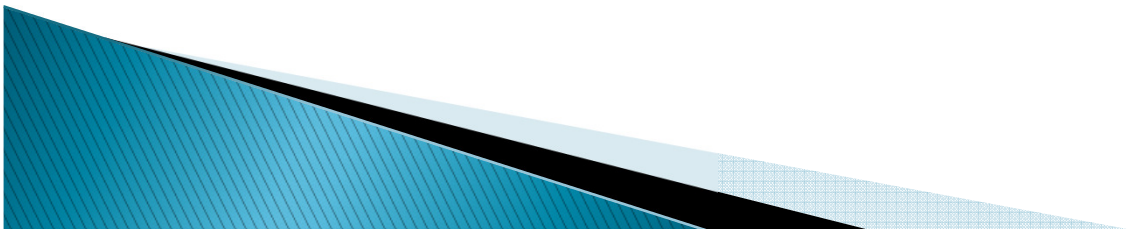
Information – Knowledge & Technology

- ▶ Task group set up under this Standing Committee to investigate what studies are already being undertaken on this topic.
- ▶ Identify who requires the results.
- ▶ Collection of best practice guides, case studies
- ▶ Trend analysis is a very positive and hopefully useful to the profession.
- ▶ "How can the Industry be Stimulated".
- ▶ how to stimulate the Industry which has a major spin-off in creating wealth and jobs.



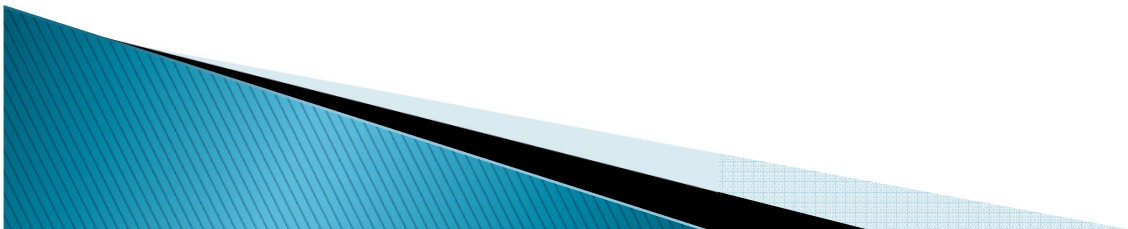
Communications & Knowledge transfer

- ▶ Comprehensive and aspirations are highly commendable – demanding.
- ▶ Interaction between members – ECCE Member Organisations and individual professionals.



Management & Organisation:

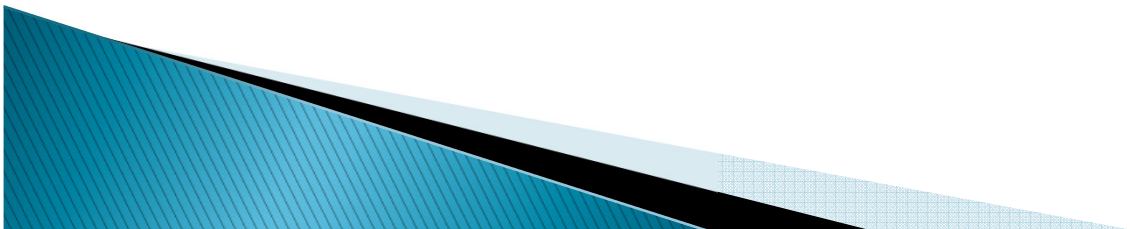
- ▶ Work Groups and Task Forces – action plan of Standing Committee
- ▶ Deliverables and timeframes.
- ▶ Resources required – Aim of the final deliverable.
- ▶ Task Forces are important for the activity during the coming years.



D: Action & Deliverables

1. Information – Knowledge & Technology

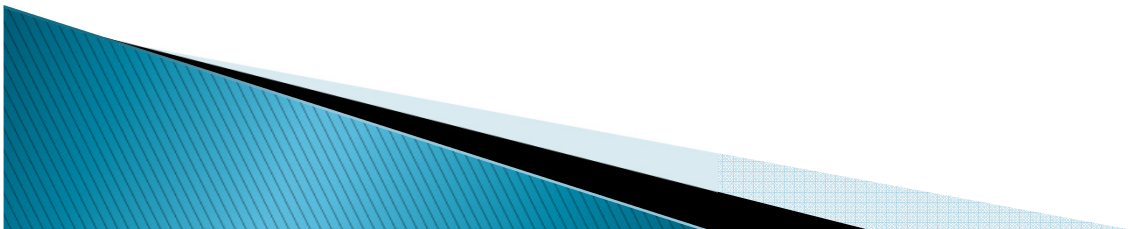
- ▶ **Survey Methodology:** Identification of Strategic Areas in Civil Engineering
- ▶ **Trends Analysis** in Civil Engineering
- ▶ **Analysis of Key Areas**



2.

Communication & Knowledge Transfer

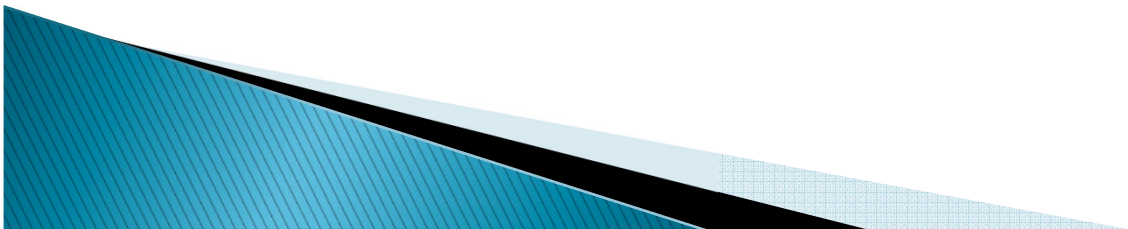
- ▶ Web-Based Communication Platform: setup an ECCE / K&T LinkedIn group.
- ▶ Communication between meetings through – remote groups – skype.



3.

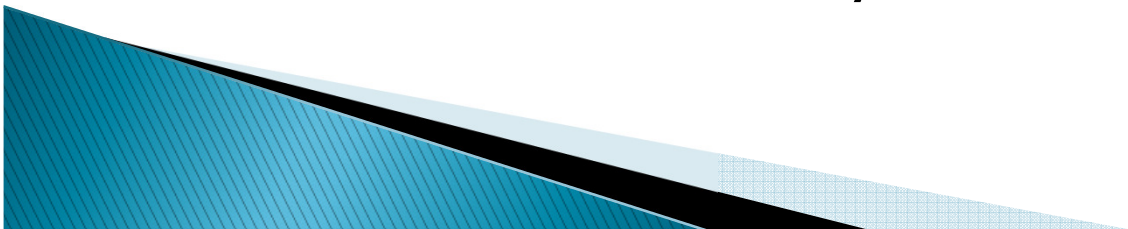
Management & Organisation

- ▶ Work Group – Task Force Organisation
- ▶ Involvement of Civil Engineers members of Country Associations



Task Force – Survey of Trends in Civil Engineering.

- ▶ Identify **participants & experts from each country**
- ▶ Regular monthly **skype** conferences
- ▶ **Tasks:**
 - ▶ (1) Analysis of current and existing studies
 - ▶ (2) Develop a refined survey methodology
 - ▶ (3) Time-series analysis



- ▶ Task Force – Priority Area/s – identification of Best Practice – Guideline Doc.
- ▶ Group of experts identified – extending the membership of the Task Force to nominated members from the National Country organisations.
- ▶ Definition of target deliverable
- ▶ Major deliverable: **Best practice example – Guideline Recommendations.**



Ongoing activity...!

Your Feedback is Welcome

Thank you

